#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket. No. 041082-0113

Applicant:	Aser ROTHSTEIN *et al.*
Title:	SELF-ALIGNING PEPTIDES MODELED ON HUMAN ELASTIN AND OTHER FIBROUS PROTEINS
Application No.:	09/964,662
Filing Date:	09/28/2001
Examiner:	Unassigned
Art Unit:	Unassigned

STATEMENT TO SUPPORT FILING AND SUBMISSION IN ACCORDANCE WITH 37 C.F.R. 1.821-1.825

Commissioner for Patents
Washington, D.C. 20231

Sir:

In connection with a Sequence Listing submitted concurrently herewith, the undersigned Hereby states that:

1. the submission, filed herewith in accordance with 37 C.F.R. 1.821(g), does not include new matter;

2. the content of the attached paper copy and the attached computer readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. 1.821(c) and (3), respectively, are the same; and

3. all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United

States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

Respectfully submitted,

Date 17 December 2001

By S. A. Bent

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SEQUENCE LISTING

<110> ROTHSTEIN, ASER
KEELEY, FRED
ROTHSTEIN, STEVEN

<120> SELF-ALIGNING PEPTIDES MODELED ON HUMAN ELASTIN
AND OTHER FIBROUS PROTEINS

<130> 041082/0110

<140> 09/340,736
<141> 1999-06-29

<150> 08/911,364
<151> 1997-08-07

<150> 60/023,552
<151> 1996-08-07

<160> 11

<170> PatentIn Ver. 2.1

<210> 1
<211> 731
<212> PRT
<213> Homo sapiens

<400> 1

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Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
             20                  25                  30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
         35                  40                  45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
     50                  55                  60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Ala Tyr Lys Ala Ala
 65                  70                  75                  80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
                 85                  90                  95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
            100                 105                 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
        115                 120                 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
    130                 135                 140
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Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
145                 150                 155                 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
                165                 170                 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
            180                 185                 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
        195                 200                 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
    210                 215                 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
225                 230                 235                 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
                245                 250                 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
            260                 265                 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
        275                 280                 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
    290                 295                 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
305                 310                 315                 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
                325                 330                 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
            340                 345                 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
        355                 360                 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
    370                 375                 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Gly Val Gly Gly Val
385                 390                 395                 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
                405                 410                 415

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Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
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Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
    450                 455                 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
465                 470                 475                 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Ala Ile Gly Pro Gly
                485                 490                 495

Gly Val Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
            500                 505                 510

Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
        515                 520                 525

Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
    530                 535                 540

Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu
545                 550                 555                 560

Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser
                565                 570                 575

Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly
            580                 585                 590

Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly
        595                 600                 605

Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly
    610                 615                 620

Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
625                 630                 635                 640

Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly
                645                 650                 655

Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly
            660                 665                 670

Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly
        675                 680                 685

Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val
    690                 695                 700

Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala
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Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
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<213> Artificial Sequence

<220>
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Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val
             20                  25                  30

Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala Ala Lys
         35                  40                  45

Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys
     50                  55                  60

Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val
 65                  70                  75                  80

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro
                 85                  90                  95

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
            100                 105                 110

Ala Pro Ala Ile Gly Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala
        115                 120                 125

Ala Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala
    130                 135                 140

Ala Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro
145                 150                 155                 160

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu
                165                 170                 175

Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
            180                 185                 190

Gly Val Ala Pro Ala Ile Gly Pro
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

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<210> 5
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<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

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<210> 6
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Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr
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<220>
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20 25 30

Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr
35 40 45

Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala
50 55 60

Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly
65 70 75 80

Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly
85 90 95

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
100 105 110

Pro Ala Ile Gly Pro
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MFU-4 polypeptide

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Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val
20 25 30

Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala Ala Lys
35 40 45

Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys
50 55 60

Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val
65 70 75 80

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro
85 90 95

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
100 105 110

Ala Pro Ala Ile Gly Pro
115

<210> 11
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MFU-5 polypeptide

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Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly
20 25 30

Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr
35 40 45

Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala
50 55 60

Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly
65 70 75 80

Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly
85 90 95

```
Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
           100                 105                 110

Pro Ala Ile Gly Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala Ala
        115                 120                 125

Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala
    130                 135                 140

Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly
145                 150                 155                 160

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala
                165                 170                 175

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
            180                 185                 190

Val Ala Pro Ala Ile Gly Pro
        195
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